# EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| S2 | 1 | 10/554312.app. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 22:01 |
| S3 | 23 | ("20020167248"\|"20040118207"\|"20040244208"\|"20050217373"\|"20050241394"\|"20070163346"\|"20070180909"\|"20080011080"\|"4806755"\|"5203208"\|"5285686"\|"5389182"\|"5461916"\|"5585562"\|"5673139"\|"5756895"\|"5905202"\|"6104073"\|"6137206"\|"6730978"\|"6763716"\|"7330271"\|"7355318").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2008/09/15 22:19 |
| S4 | 33 | (beardmore near2 geoffrey).in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 22:35 |
| S5 | 2 | S3 and hinge | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 22:40 |
| S6 | 3 | "6707308".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 22:45 |
| S7 | 37958 | mem and hinge | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 22:51 |
| S8 | 0 | flexure near2 hinge same parallel same tunnel$5 same quantum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 22:53 |

# EAST Search History (Prior Art)

| S9 | 3 | hinge same parallel same tunnel$5 same quantum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 22:55 |
|-----|-----|-----|-----|-----|-----|-----|
| S12 | 27 | hinge same parallel same tunnel$5 same mem | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 22:56 |
| S11 | 836 | hinge and parallel and tunnel$5 and mem | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 22:56 |
| S10 | 113 | hinge and parallel and tunnel$5 and quantum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 22:56 |
| S13 | 17 | support same parallel same tunnel$5 same quantum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 22:58 |
| S16 | 11 | hinge same parallel and tunnel$5 same quantum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 23:12 |
| S15 | 0 | hinge same paralle and tunnel$5 same quantum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 23:12 |

| S14 | 3 | hinge same tunnel$5 same quantum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 23:12 |
|-----|-----|-----|-----|-----|-----|-----|
| S17 | 67 | ("3585466" \| "5149673" \| "5258591" \| "5367136" \| "5504356" \| "5596194" \| "6054745" \| "6202495" \| "6204544" \| "6229683").PN. OR ("6548841").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/09/15 23:25 |
| S19 | 11 | canteliver | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 23:43 |
| S18 | 0 | canteliver same parallel same tunnel$5 same quantum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 23:43 |
| S20 | 1 | cantilever same parallel same tunnel$5 same quantum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 23:44 |
| S21 | 144 | cantilever same parallel same tunnel$5 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 23:46 |
| S22 | 51 | cantilever same parallel and tunnel$5 same quantum | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 23:47 |
| S23 | 636 | (hinge cantilever) near5 torsion same parallel | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 23:50 |

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|---|---|---|---|---|---|---|
| S26 | 28 | (hinge cantilever) near5 torsion same parallel same layer and mem | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 23:51 |
| S25 | 41 | (hinge cantilever) near5 torsion same parallel same layer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 23:51 |
| S24 | 163 | (hinge cantilever) near5 torsion same parallel and mem | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/15 23:51 |
| S27 | 90 | ("1258368" \| "1658669" \| "2466703" \| "3213318" \| "3280550" \| "3304446" \| "3609593" \| "4806815" \| "5179499" \| "5180940" \| "5184269" \| "5191251" \| "5261747" \| "5296775" \| "5309056" \| "5355712" \| "5367584" \| "5441343" \| "5467068" \| "5475318" \| "5483799" \| "5536988" \| "5558304" \| "5600174" \| "5602955" \| "5606635" \| "5629665" \| "5644177" \| "5659285" \| "5722989" \| "5796152" \| "5813441" \| "5862003" \| "5881198" \| "5903078" \| "5909078").PN. OR ("6137206").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/09/15 23:59 |
| S29 | 38 | mem and quantum near2 tunnel$6 and parallel and rotat$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/16 00:20 |
| S28 | 87 | mem and quantum near2 tunnel$6 and parallel | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/16 00:20 |

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| S30 | 1 | mem and quantum near2 tunnel$6 and parallel and torsion | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/16 00:23 |
|-----|-----|-----|-----|-----|-----|-----|
| S31 | 5 | mem and quantum near2 tunnel$6 and parallel same overlap$6 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/16 00:24 |
| S32 | 0 | mem and quantum near2 tunnel$6 and parallel same overlap$6 same lateral near10 translation | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/16 00:27 |
| S33 | 0 | mem and quantum near2 tunnel$6 and parallel same overlap$6 same lateral near10 translation$5 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/16 00:28 |
| S35 | 2 | mem and tunnel$6 and parallel same overlap$6 same translation$5 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/16 00:29 |
| S34 | 1 | mem and quantum near2 tunnel$6 and parallel same overlap$6 same translation$5 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/16 00:29 |
| S36 | 301 | mem and tunnel$6 and parallel same overlap$6 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/16 00:30 |

# EAST Search History (Prior Art)

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|---|---|---|---|---|---|---|
| S37 | 5 | mem and quantum near5 tunnel$6 and parallel same overlap$6 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/16 00:31 |
| S38 | 2 | flexure near2 hinge same parallel same overlap$5 same area | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/16 00:39 |
| S41 | 180 | hinge same parallel same overlap$5 same area and mem | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/16 00:41 |
| S40 | 938 | hinge same parallel same overlap$5 same area | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/16 00:41 |
| S42 | 1 | hinge same parallel same overlap$5 same area and micromechanical | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/09/16 00:45 |
| S44 | 4 | hinge and parallel and tunnel$5 and quantum and @pd>="20080910" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/09/30 18:58 |
| S43 | 116 | hinge and parallel and tunnel$5 and quantum and pd>="20080910" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/09/30 18:58 |

| S45 | 56 | hinge and parallel and tunnel$5 and mem and @pd>="20080910" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/09/30 19:01 |
|-----|------|-----|-----|-----|-----|-----|
| S46 | 19 | hinge and parallel and tunnel$5 and mem and ("257" "977").clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/09/30 19:02 |
| S47 | 147 | (Electrostatic near5 (micro near1 electromechanical micro-electromechanical)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/09/30 19:04 |
| S48 | 29 | (Electrostatic near5 (micro near1 electromechanical micro-electromechanical)) and (quantum near5 tunnel$ oscillat$6) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/09/30 19:05 |
| S51 | 6 | (257/414-419,e27.006 438/50-53 977/724, 724,732,733).ccls. and ((mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantelever) and tunnel$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/07 22:02 |
| S52 | 1171 | ((mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantelever) and tunnel$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/07 22:23 |
| S53 | 586 | ((mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantelever) and tunnel$4) and rotation$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/07 22:24 |

# EAST Search History (Prior Art)

| S56 | 186 | S55 not S54 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/07 22:52 |
|-----|-----|-------------|------|-----|-----|------|
| S55 | 772 | ((mems mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel$4) and rotation$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/07 22:52 |
| S54 | 586 | ((mems mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantelever) and tunnel$4) and rotation$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/07 22:52 |
| S58 | 11 | (257/414-419,e27.006 438/50-53 977/724, 724,732,733).ccls. and ((mems mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel$4) and rotation$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/07 23:03 |
| S59 | 12 | (257/414-419,e27.006 438/50-53 977/724, 725,732,733).ccls. and ((mems mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel$4) and rotation$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/07 23:06 |
| S60 | 7 | (Michalewicz near2 Marek Rymuza NEAR2 Zygmunt).in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/07 23:09 |
| S61 | 14 | (257/414-419,e27.006 438/50-53 977/724, 725,732,733).ccls. and ((electromechanical electro near1 mechanicalmems mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel$4) and rotation$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/07 23:21 |

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|---|---|---|---|---|---|---|
| S62 | 2 | S61 not S59 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/07 23:22 |
| S63 | 14 | (257/414-419,e27.006 438/50-53 977/724, 725,732,733).ccls. and ((electromechanical electro near1 mechanical mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel$4) and rotation$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/07 23:24 |
| S69 | 3514 | (web net) near2 electrode | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/08 09:23 |
| S70 | 176 | (web net) near2 electrode near10 substrate | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/08 09:24 |
| S71 | 8 | (web net) near2 electrode near10 substrate same (benefi$5 advantag$5 desirab$5) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/08 09:26 |
| S72 | 19 | ((coplanar line) near2 electrode) near20 (film layer substrate near2 thin) near10 vibrat$5 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/08 09:31 |
| S73 | 1431 | (digital interdigit$5) near5 electrode same (benefi$5 desirab$5 advantag$5) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/09 16:30 |

# EAST Search History (Prior Art)

| S75 | 224 | (digital interdigit$5) near5 electrode near5 (benefi$5 desirab$5 advantag$5) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/09 16:31 |
|---|---|---|---|---|---|---|
| S74 | 316 | (digital interdigit$5) near5 electrode near10 (benefi$5 desirab$5 advantag$5) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/09 16:31 |
| S76 | 465 | (digital interdigit$5) near5 capacit$4 near5 (benefi$5 desirab$5 advantag$5) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/09 16:34 |
| L2 | 26 | elongated near5 dop$3 near5 region near5 conduct$5 same substrate | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/19 13:51 |

# EAST Search History (Interference)

| Ref # | Hits | Search Query | DBs | Defa ult Oper ator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| S65 | 12 | (257/414-419,e27.006 438/50-53 977/724, 725,732,733).ccls. and ((mems mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel$4) and rotation$4 | US-PGPUB; USPAT; UPAD | OR | ON | 2009/12/07 23:11 |
| S64 | 3 | (Michalewicz near2 Marek Rymuza NEAR2 Zygmunt).in. | US-PGPUB; USPAT; UPAD | OR | ON | 2009/12/07 23:11 |
| S68 | 2 | (257/414-419,e27.006 438/50-53 977/724, 725,732,733).ccls. and (((electromechanical electro near1 mechanical mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel$4) and rotation$4).clm. | US-PGPUB; USPAT; UPAD | OR | ON | 2009/12/07 23:25 |

| S67 | 14 | (257/414-419,e27.006 438/50-53 977/724, 725,732,733).ccls. and ((electromechanical electro near1 mechanical mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel$4) and rotation$4 | US-PGPUB; USPAT; UPAD | OR | ON | 2009/12/07 23:25 |